Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Original) A method of computing comprising:

    reading and parsing a data processing representation;

    recognizing a declaration reference to an executable namespace;

    recognizing an expression referencing a function of the executable namespace;

    instantiating the referenced function or a function creator to create the function, then instantiate the created function; and

    evaluating the expression using the instantiated function.

2. (Original) The method of claim 1, wherein said declaration includes a path in said executable namespace to be followed to locate functions of the executable namespace; and said instantiation comprises following said path to locate said referenced function or the function creator of the referenced function.

3. (Original) The method of claim 2, wherein said instantiating comprises

    determining if a loadable Java class exists under a fully qualified name formed with said path and said referenced function; and

    if the loadable Java class exists under the fully qualified name, instantiating said loadable Java class following said path.

4. (Original) The method of claim 2, wherein said instantiating comprises

    determining if a loadable resource exists under a class path formed with said path said referenced function, and a class name; and

    if the loadable resource exists under the class path, retrieving said loadable resource following said path, compiling said retrieved resource, and instantiating said compiled resource.

5.   (Original) The method of claim 2, wherein said instantiating comprises
determining if a loadable XSLT style sheet exists under a class path formed
with said path said referenced function, and an XSLT style sheet extension; and

if the loadable resource exists under the class path, retrieving said loadable
XSLT style sheet following said class path, and calling said XSLT style sheet as a
function section.

6.   (Original) The method of claim 2, wherein said instantiating comprises
determining if a loadable resource exists under a class path formed with said
path and a function creator name of said function; and

if the loadable resource exists under the class path, retrieving said loadable
resource following said path, creating said function using said loadable resource,
and instantiating said created function.

7.   (Original) The method of claim 1, wherein said instantiating comprises first
determining if a loadable Java class corresponding to the referenced function exists,
and if not, whether a compilable resource corresponding to the referenced function
exists.

8.   (Original) The method of claim 1, wherein said instantiating comprises first
determining if a Java resource corresponding to the referenced function in
executable or compilable exists, and if not whether an XSLT style sheet resource
corresponding to the referenced function exists.

9.   (Original) The method of claim 1, wherein said instantiating comprises first
determining if an XSLT style sheet corresponding to the referenced function
resource exists, and if not whether a Java class factory corresponding to the
referenced function exists.

10.   (Original) The method of claim 1, wherein said method further comprises recognizing at least one other function nested within said referenced function of the expression, and said evaluation comprises recursively invoking and instantiating the nested functions.

11.   (Currently Amended) An apparatus comprising:
        at least one storage unit having stored thereon programming instructions designed to
        read and parse a data processing representation;
        recognize a declaration reference to an executable namespace;
        recognize an expression referencing a function of the executable namespace;
        instantiate the referenced function or a function creator to create the function, then instantiate the created function; and
        evaluate the expression using the instantiated function; and
        at least one processor coupled to said at least one storage unit to execute said programming instructions.

12.   (Original) The apparatus of claim 11, wherein said programming instructions are designed to recognize said declaration having including a path in said executable namespace to be followed to locate functions of the executable namespace; and to effectuate said instantiation by following said path to locate said referenced function or the function creator of the referenced function.

13.   (Original) The apparatus of claim 12, wherein said programming instructions are designed to
        determine if a loadable Java class exists under a fully qualified name formed with said path and said referenced function, and
        if the loadable Java class exists under the fully qualified name, instantiate said loadable Java class following said path.

14. (Original) The apparatus of claim 12, wherein said programming instructions are designed to

determine if a loadable resource exists under a class path formed with said path said referenced function, and a class name, and

if the loadable resource exists under the class path, retrieve said loadable resource following said path, compile said retrieved resource, and instantiate said compiled resource.

15. (Original) The apparatus of claim 12, wherein said programming instructions are designed to

determine if a loadable XSLT style sheet exists under a class path formed with said path said referenced function, and an XSLT style sheet extension, and

if the loadable resource exists under the class path, retrieve said loadable XSLT style sheet following said class path, and call said XSLT style sheet as a function section.

16. (Currently Amended) The apparatus of claim 12, wherein said programming instructions are designed to

determine if a loadable resource exists under a class path formed with said path and a function creator name of said function, and

if the loadable resource exists under the class path, retrieve said loadable resource following said path, create said function using said loadable resource, and instantiate said created function.

17. (Original) The apparatus of claim 11, wherein said programming instructions are designed to effectuate said instantiation by first determining if a loadable Java class corresponding to the referenced function exists, and if not, whether a compilable resource corresponding to the referenced function exists.

18. (Original) The apparatus of claim 11, wherein said programming instructions are designed to effectuate said instantiation by first determining if a Java resource

corresponding to the referenced function in executable or compilable exists, and if not whether an XSLT style sheet resource corresponding to the referenced function exists.

19. (Original) The apparatus of claim 11, wherein said programming instructions are designed to effectuate said instantiation by first determining if an XSLT style sheet resource corresponding to the referenced function exists, and if not whether a Java class factory corresponding to the referenced function exists.

20. (Original) The apparatus of claim 11, wherein said programming instructions are further designed to recognize one or more functions nested within said referenced function of the expression, and recursively invoke and instantiate the nested functions.

21. (Currently Amended) An apparatus comprising:
    means for reading and parsing a data processing representation;
    means for recognizing a declaration reference to an executable namespace,
        including a path within the execuetable namespace;
    means for recognizing an expression referencing a function of the executable
        namespace;
    means for instantiating, following said path, the referenced function or a
        function creator to create the function, then instantiate the created
        function; and
    means for evaluating the expression using the instantiated function.